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Net area of Fuilding 123,000 sq. ft.
 Site, Design, Engineering, Supervision, etc.
 Estimated Improvement Cost \$3,693,000
 Annual Rental of Space Comparable to New Building

5. Estimated Number of Personnel

Economically Useful Life of Building

348

to be Housed

50 yrs.

#### II. Cost Inclusions

#### A. Construction

1. Site, Design, Engineering, etc. \$ 685,000 (Soo)

There is no discounting involved in this cost and consequently, the estimated cost is uded. In the event that the site is expected to be acquired by exchange or use of a Government-owned site, the fair market value of the site should be used.

#### 2. Improvement

Again no discounting is involved and the present value is the estimated cost.

### 3. Maintenance and Operation

\$3,475,938 -- 0

This total annual cost is computed by multiplying \$1.43 x net area of the building (123,000 sq. ft.). This yields \$175,890 which when multiplied by Figure I in Exhibit A (19.7620) will equal \$3,475,938 present value of a stream of \$175,890 payments in each of 50 years (economically useful life of building).

### 4. Repairs and Improvements

\$ 784,380 --- 0

This cost is assumed to escalate over the economically useful life of the building in the following manner:

Range of Years	Cost per sq. f	t
1 - 10	\$ .10	
11 - 20	.30	

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### 4. Repairs and Improvements (Cont'd)

Range of Years	Cost per sq. ft.
21-40	\$ .50
41-50	1.00 /. 20

The present value factor to be used for years 1 to 10 is Figure II in Exhibit A. To obtain the factor for the second period (years 10-20) Figure III must be reduced by Figure II yielding 5.0952. Similarly, the third period is obtained by subtracting Figure III from Figure IV yielding 5.3936. The fourth period is derived by subtracting Figure IV from Figure I yeilding 3.3604. Therefore, the present value of the cost per sq. for the arrived at by multiplying these factors by the unit

51	sq. fv. is arricost:					
7.5376×100	7.9127 X .10	1/376			.79127	10
4.4127x30	5.0952 X .30	1. 32581	=		1.52856	20
4.095,8,50	5.3936 x .50	2.04700	<b>£</b> :		2.69682	Ko
885 4xhow	1.3604 X 1.00	.88540	<b>n</b>	1.63248	1.36042	50
		5.01017		6.64913	6.37707	ton a

The sum of these unit costs when multiplied by the net sq. ft. will yield the present value of the stream of R&I costs for the 50-year period. This factor then (6.377) can be used when the economically useful life is 50 years, the R&I costs are scheduled as above and the discount rate used is 4 1/2%.

### 5. Impacted Area Payment

196,474

These payments are used to compute the cost to the Federal Government in compensating the local community for taxes foregone as a result of Covernment ownership. These payments are estimated as being equal to \$200 per child, with an average of one child per 7 employees or \$28.57 per employee. Number of Employees X Unit Payment X Present value factor for a 50-year stream of equal payments (Fig. I).

348 x 28.57 x 19.7620

TOTAL \$8,834,792

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## B. Leasing

Only one cost is pertinent for the leasing alternative, i.e., the annual comparable rental on a fully serviced basis. To determine the present value of a stream of equal payments over 50 years multiply Fig. I X the annual rental (\$500,000). Therefore, in this case it is shown that the construction alternative is 1,046,000 present-value dollars cheaper then the leasing alternative.

TOTAL \$9,881,000

III. The difference between the cost of leasing and the cost of construction divided by the net assignable square feet in the project will produce a number which can be compared with other numbers to determine the relative cost advantage of one project over another project.

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